

## ABSTRACT OF THE DISCLOSURE

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A method is provided for removing plating blocking ions, such as anions, in pairs with copper ions and oxidant ions of a copper ion reducing agent from an electroless copper plating solution and keeping a constant salt concentration in the electroless copper plating solution during plating. The electroless copper plating method uses a plating solution containing copper sulfate as copper ion sources, and a copper ion complexing agent as copper ion sources, glyoxylic acid as a copper ion reducing agent, and a pH conditioner. The method is characterized by precipitating and removing sulfuric and oxalic ions in said electroless copper plating solution and keeping an optimum concentration of at least one of sulfuric and oxalic ions in said electroless copper plating solution during plating.

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